

ABSTRACT

There is provided a semiconductor device having a music generation function for automatically generating music data from image data inputted without preparing music information in advance, and a mobile electronic device, a mobile telephone device, a spectacle instrument, and a spectacle instrument set using the same. The device includes a miniature camera 11 for continuously imaging an object and inputting image data for each frame; movement section identification means 21 for identifying the portion where an object has moved within each frame from the image data inputted by the miniature camera 11; music generation means 22 for generating music data corresponding to the position identified by the movement section identification means 21; and music output means 23 for outputting music data generated by the music generation means 22. When the object moves in front of the miniature camera 11, a music in accordance with the movement of the object is automatically generated and played with sounds of various kinds of musical instruments.